

Instruction Manual

Model 302AC



Characteristics



HV-302AC



Design of High Quality

Superb design of thick cafe atmosphere and smooth, grace, elegant streamlined appearance.



With Mineral Water Tank

Designed to use the mineral water tank to avoid the trouble to pour in water from time to time.



Automatic Flavoring

Advanced flavoring setting taste with microcontrol.



Big-Volume Raw Tank

The big-volume tank is used, which can be compared with the large slot machine.



Adjustment of Hot Water Temperature

The temperature inductor is installed in the heating cabinet and the water temperature can be adjusted to 60°C-93°C



Convenient Cleaning of Exhaust Fan

The hook for easy cleaning is designed in the curve way and frequent exhausting may extend the lifetime of the machine.

Specification

Model	HV-302AC
Power	AC220V 50HZ
Heater power	1600W
Electronic Refrigeration Liner Power	60W
Water Tank Volume	4L
Hot Tank Volume	1.6L
Cold Tank Volume	0.8L
Display	LED&Nixie Light
Raw Material	Cacao, Melk Coffee
Size (W*D*H)	310*440*670
Weight	22Kg

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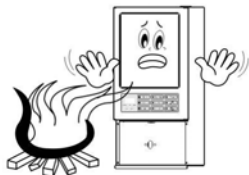
Placement

Do not place in the following place:

- 1 The slanting surface or uneven place.**
Please place the machine in plain place



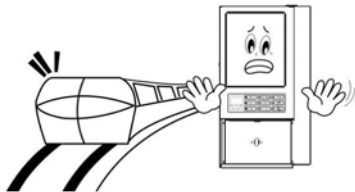
- 2 The dangerous place.**
Avoid the place of fire danger.



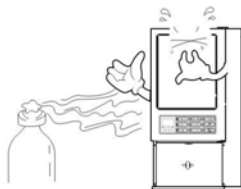
- 3 The place under direct light or rain and wind.**
Please place it where there is no direct light and wind and rain.















- 4 The noisy place.**
Place it far from
electrowaves and noise.



- 5 The place where there is sea wind (humid) or toxic gas:**
Place it where is no influence.



Safety is divided into warning and caution:

 <p>Warning This mark shows that violation of the requirements of operation may cause death or severe injury.</p>	 <p>Caution This mark shows that violation of the requirements of operation may cause injury of human body or damage of house and other property.</p>
 <p>This mark shows that violation of the requirements of operation may cause death or severe injury.</p>	 <p>This mark shows that if put near inflammable gas or volatile, there is danger of explosion.</p>
 <p>will cause danger to remind probably.</p>	 <p>This mark shows that there is danger of electric shock.</p>
 <p>This mark show power plug is pulled out.</p>	 <p>This mark shows that one should not touch the hot spot.</p>
 <p>This mark shows impossibility of dismantle.</p>	 <p>This mark shows one should not touch functional positions.</p>
 <p>This mark shows to touch with the bare hand is not allowed.</p>	 <p>This mark shows if one does not use the nominal power, there is danger of fire.</p>



Warning

When pouring water into the water tank, avoid spilling or leaking inside or onto the side of machine.

- Otherwise electric shock or fire may occur.

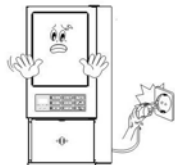


Do not pull or plug the power line with wet hand.

- Danger of electric shock.



Do not touch



Avoid weighting down and damaging the power line.

- Danger of electric shock or fire because of electricity leak. Please use specific power socket.

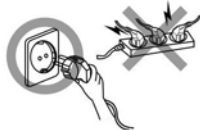


Do not connect several appliances to use socket.

- It may be cause of fire.



Forbid



Warning and Caution Marks



Caution

• Do not give too much pressure onto the front operation position, otherwise deterioration of machine occurs.



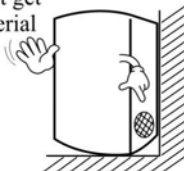
Forbid



• Do not place the machine too close to the wall, otherwise there is poor exhaustion. If humid inside the machine does not get out, the raw material may solidify.



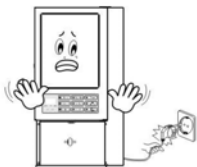
Forbid



• Do not pull the power line for it may cause electric leak or shock by the damaged part of the line.



Forbid

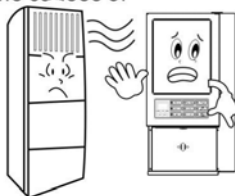


Do not place the machine opposite of the air-conditioner.

*It may be one of the causes of solidification of raw material from the material outlet.



Forbid



• Except for instant powder material, do not use other material. Usage of particles or sticky raw material such as peanut, tea, soup, gruel etc. for it may stop up the connecting passage.



Forbid



• Do not put your hand into under the bottom of the machine for it may cause injury by a sharp-edged.



Do not dismantle



• When the machine is out of use for a long time (over 2 days), please pull out the plug. Otherwise it may cause fire because of overheating.



pull out the plug



• If there is alien sound or smell, pull out the plug at once and contact with the sales center or the owner of store.



pull out the plug



Warning and Caution Marks

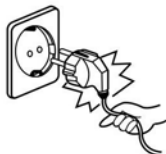


Warning

- Do not twist or pull or damage the power line. It will break the line and it is very dangerous.



Forbid



- Do not put utensils with water on the top of the machine. The dripping water will decrease insulation and cause electric shock and fire.



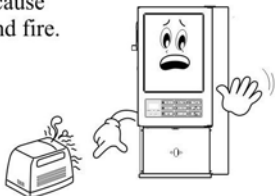
Forbid



- Do not put the machine in the humid place, otherwise insulation of electric articles may deteriorate and cause electric shock and fire.



Forbid



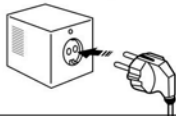
- When replacing the fuse, pull out the power plug, otherwise there is danger of electric shock.



Pull out plug



- Please use a special socket of 220V. If the machine is used in the area of 110V, please use a step-up transformer in conformity with the capacity. If the designated transformer is not used, there is danger of fire and shock. The step-up transformer is to be bought separately (over 2KVA).



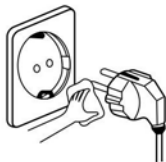
- Do not dismantle the machine, or it may cause shock or damage.



Do not dismantle



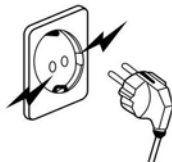
- Clean the metallic part of the power plug of the alien matter, or it may cause fire.



- When you find out that the hoses of socket are loosened, do not put the plug in, or it may cause shock and fire.



Forbid

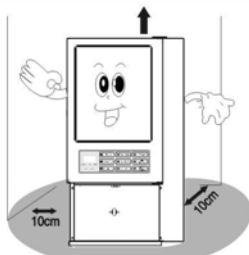


Work Before Use of Machine

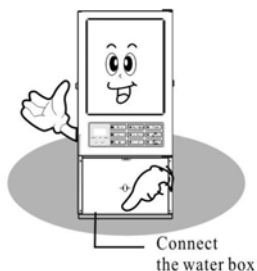
- 1** Clean the machine. Connect the water box. Connect the earth wire (green). Connect the earth bar.
* Clean inside and outside of the raw material tank.
* About cleaning, see page 18.



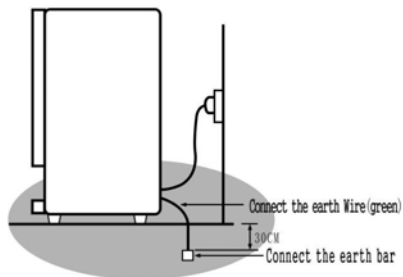
- 2** Place the machine from the wall at least 10cm and choose the even floor. The uneven floor is one of causes of noise and poor working.




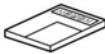



- 3** Put the water box to the former place.



- 4** For the safety sake, please use a special socket with earth wire.
* If you do not use the socket with earth wire, please connect one end of the wire (green, a copper wire over 1.6mm or soft wire over 1.25mm or over 2mm) and the other end to copper plate or earth bar and bury it 30cm deep. Be sure not to connect the wire to the pipe of LPG. It is very dangerous.

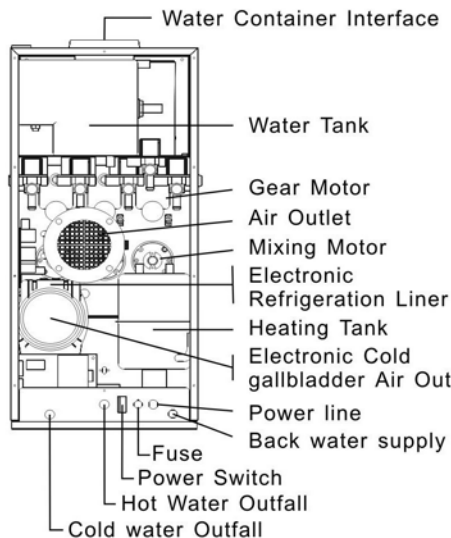


Accessory

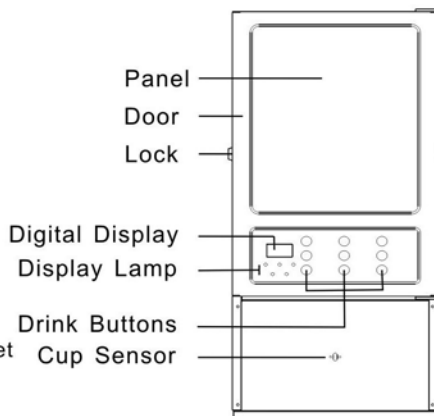
				
2 keys	Operational manual /warranty card	Water receptacle	Water tank outlet	3 raw material tanks

Description of Elements & Parts HV-302AC

Back Side

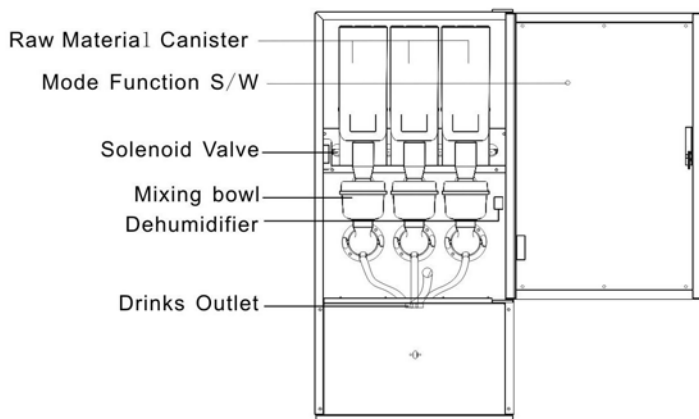


Front Side

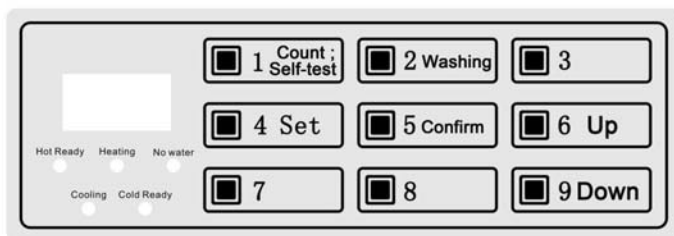


Before Use

Inner Side Front, & Inside the Cabinet Door



Operation Panel



Self-checking Function

The coffee machine has auto-test function, when the mode function switch (on the back of the door) is put on "open" position, the machine enters mode function status, the display window displays "5E7". While press No.1 key(button) once ("count, self-test" key(button)), while the display window displays "7E5" (means TEST), then press No.5 key(button) ("confirm" key(button)), the machine begins to proceed to auto-test.

Test Sequence:

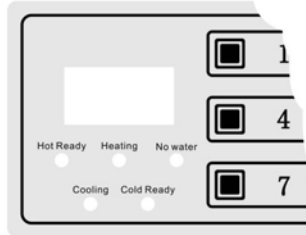
Back water supply solenoid valve , solenoid valve of cold water , solenoid valve of hot water, Drink hot water solenoid valve 3, Drink hot water solenoid valve 2, Drink hot water solenoid valve 1, mixing motor 3, mixing motor 2, mixing motor 1, material feeding motor 3, material feeding motor 2, material feeding motor 1.

On the process of test, user can carefully watched the operation status of above-mentioned component, and determine the component function normally or not.

- Caution:
1. Self-checking should be operated before filling the material box and usually with the material box dismantled.
 2. Pick the water at the drink outlet with a vessel.

Display Function Instructions

● Display (as following chart) Function Instructions

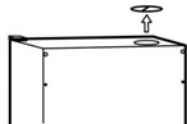


"Digital display area" is composed by nixie tubes, mainly display digital information of current operation status or setting status of coffee machine. There has light emitting diode below digital display area. While the machine is under heating status, display window display water temperature currently in heater, and light up "Heating" LED. Because serving water has not reached set temperature, coffee machine is in waiting status and would not serve any drink (coffee machine will not serve drink if press drink key at this moment); waiting machine complete heating (need about 7~8 minutes) entering using status, "Heating" LED off and "Hot Ready" LED on, display window displays "USE", while coffee machine enters operation status. While water in refrigerating inner container has not reached set temperature of ice water, "Cooling" LED light up, while water in refrigerating inner container has reached set temperature of ice water, "Cold Ready" LED light up. While water level is low in water container of coffee machine, needing to add water "No water" light up (LED), and start buzz to alert (coffee machine will not serve drink if press drink key at this moment).

Note: *When powered on, the machine is ready to serve hot drinks and the lamp of "Hot" lights up.

How to use the Mineral Water Tank

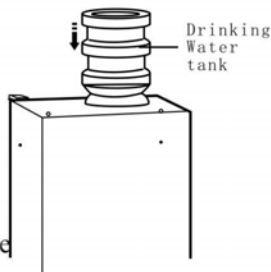
1 Lift down the cover of the Water Tank.



Put the water bucket onto the interface of the Water

2 Tank.

Do not let the elder or children replace the heavy bucket.



3 Interface of Water Tank in this machine is specially designed for water bucket.

※When the water bucket is not on the Water Tank, the volume of drink will differ by different water line.

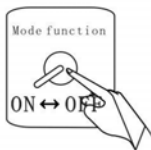


Avoid the water spilling and dripping on the surface of the machine when replacing the mineral water Tank.

Auto-cleaning of Feeding Pipe and Mixing Bowl

Please clean the raw material beater and feeding pipe as usual as possible

● Operation for cleaning



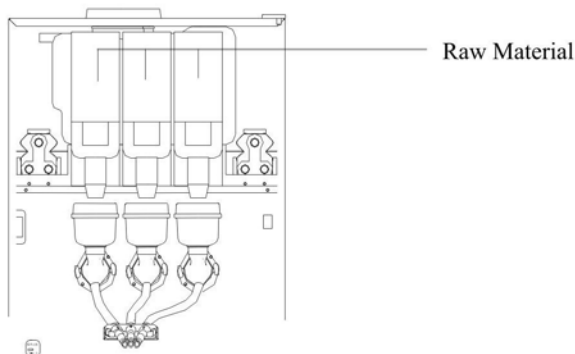
1 Turn the Mode Function switch (on the back of the door) to position "ON".

2 Press No.2(washing) button on the Panel.

※ With a vessel receive the cleaned water at the drink outlet. Take care not to burn by hot water.

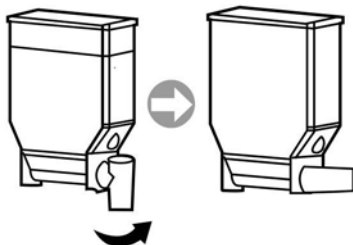
To clean and sterilize with hot water at least once a day in order to prevent peculiar smell.

How to Place Raw Material

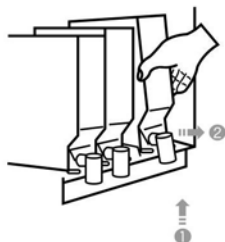


● First dismantle the raw material container.

- 1** Screw open the spout of the raw material bucket in the direction of the arrow



- 2** Lightly lift the front of the bucket and pull it out
• Pull it from the left to the right



Raw Material Used

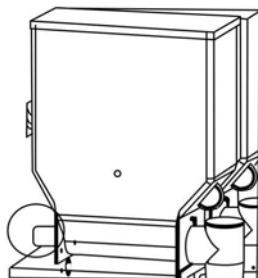
	Can be used	Can not be used
Raw Material	· Coffee · Cacao · Milk	· liquid cream

How to Fix the Raw Material Canister

1

Put the holdown groove of raw material bucket shaft in rotation shaft.

- When feeding material, follow the relevant names of material in the bucket.
- In case of higher humidity please use heating band for prevention of solidification of raw material.



- In case of higher humidity in summer, using the heating band brings higher efficiency, but in winter it brings the reverse effect.

Replacement of Fuse

When the fuse burns off, replace it with a new one(AC220V,10A).
Replacement of the fuse is not included in the after-sale service.

Replacement of Power Fuse

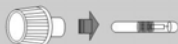
1 Before replacement pull out the plug



2 Open the cover of the fuse box.



3 Take out the fuse and put in the new one.



4 Screw tight the cover.



Setting and Usage

The Factory Setting for Drink taste is standard state and customer can regulate the taste by different taste.



Setting and choice of Drinks

To fill the Water Tank.

- 1
- Be careful not to watering down on the surface of the machine.
 - Fill 3 / 4 of the Water Tank, while there is no water bucket on the Water Tank.
-

2



Put the power plug in the socket of 220V.
Please use the grounded socket.
(Grounded plug for this machine)

Turn on the power switch backside of the machine.

3

With the sound of buzzer, Shines “Heating” Indicating lamp .

At this time the water is not hot enough to make the drinks and the coffee machine is in Standby Mode. About 7~8 minutes later, lamp of “Hot Ready” lights up and the machine is ready for using.

As power on, the machine is ready for service hot drinks.

(The temperature range of Electronic Refrigeration Liner is 5°C~6°C from its stop to work.)

4

Before using, please operate self-checking of the machine (see P. 9) to make sure all the function is in good condition and as well auto-cleaning for mixing bowl and feeding pipe (see P.11) to wash and sterilize.

Furnish the raw material tank and fill with raw material(see P.13/12).

Adjustment of Drink Taste(see P.15).

Turn the Mode switch to position “OFF”, put the machine in service.



Caution: Mode switch should be turned to position “OFF” before plug in.



Adjustment of Taste / Water Volume

Appreciating taste of drinks can be adjusted by different hobby and remembered by the controlling program.



Adjustment of Drink Taste

- 1 Turn the Mode Function switch (on the back of the door) to position "ON", the Display shows "5E7".



- 2 Press 3 times "set" key(button), display window displays "R1.0" ... that is water volume set mark for the first kind of drink (electromagnet valve). While user can use "UP" "DOWN" button to set suitable water volume.

Press "set" key(button) once more, display window displays "R1.1" ... that is raw material quantity for the first kind of drink. While user can use "UP" "DOWN" button to set.

Press "set" key(button) 5 times, display window displays "R2.0" ... that is water volume set mark for the second kind of drink (electromagnet valve). While user can use "UP" "DOWN" button to set suitable water volume.

Press "set" key(button) once more, display window displays "R2.2" ... that is raw material quantity for the second kind of drink. While user can use "UP" "DOWN" button to set.

Press "set" key(button) 7 times, display window displays "R3.0" ... that is water volume set mark for the third kind of drink (electromagnet valve). While user can use "UP" "DOWN" button to set suitable water volume.

Press "set" key(button) once more, display window displays "R3.3" ... that is raw material quantity for the third kind of drink. While user can use "UP" "DOWN" button to set.

Press "set" key(button) 9 times, display window displays "R4.0" ... that is water volume set mark for the fourth kind of drink (electromagnet valve). While user can use "UP" "DOWN" button to set suitable water volume.

Press "set" key(button) once more, display window displays "R4.1" ... that is the first raw material quantity for the fourth kind of drink. Press "set" key(button) once more, display window displays "R4.2" ... that is the second raw material quantity for the fourth kind of drink. While user can use "UP" "DOWN" button to set.

Adjustment of Taste/Water Volume

Appreciating taste of drinks can be adjusted by different hobby and remembered by the controlling program.



Adjustment of Drink Taste

Press "set" key(button) 12 times, display window displays "E_{5.0}" ... that is water volume set mark for the fifth kind of drink (electromagnet valve). While user can use "UP" "reduce" button to set suitable water volume.

Press "set" key(button) once more, display window displays "E_{5.1}" ... that is the first raw material quantity for the fifth kind of drink.

Press "set" key(button) once more, display window displays "E_{5.3}" ... that is the second raw material quantity for the fifth kind of drink. While user can use "UP" "reduce" button to set.

Press "set" key(button) 15 times, display window displays "F_{6.0}" ... that is water volume set mark for the sixth kind of drink (electromagnet valve). While user can use "UP" "reduce" button to set suitable water volume.

Press "set" key(button) once more, display window displays "F_{6.2}" ... that is the first raw material quantity for the sixth kind of drink.

Press "set" key(button) once more, display window displays "F_{6.3}" ... that is the second raw material quantity for the sixth kind of drink. While user can use "UP" "reduce" button to set.

Press "set" key(button) 18 times, display window displays "G_{7.0}"... that is water volume set mark for the seventh kind of drink (electromagnet valve). While user can use "UP" "reduce" button to set suitable water volume.

Press "set" key(button) once more, display window displays "G_{7.1}" ... that is the first raw material quantity for the seventh kind of drink.

Press "set" key(button) once more, display window displays "G_{7.2}" ... that is the second raw material quantity for the seventh kind of drink. While user can use "UP" "reduce" button to set.

Press "set" key(button) once more, display window displays "G_{7.3}" ... that is the third raw material quantity for the seventh kind of drink. While user can use "UP" "reduce" button to set.

Adjustment of Taste/Water Volume

Appreciating taste of drinks can be adjusted by different hobby and remembered by the controlling program.



Adjustment of Drink Taste

Press "set" key(button) 22 times, display window displays "h.u.o" ... that is hot water volume set mark (electromagnet valve). While user can use "UP" "reduce" button to set suitable water volume.

Press "set" key(button) 23 times, display window displays "c.u.o" ... that is ice water volume set mark (electromagnet valve). While user can use "UP" "reduce" button to set suitable water volume.

While cold, hot water set as "h.u.o", cold, hot water volume control mode changes from auto mode to manual mode, that is to control water volume by the time of pressing.

- 3 Having adjusted the taste, the Confirm button should be pressed and the Mode Function switch (on the back of the door) turned to position "OFF", the Display shows **P.O.O**



Setting for Water Temperature

Setting for Water Temperature

- 1 Turn the Mode Function switch (on the back of the door) to position "ON". The Display shows "5E7".



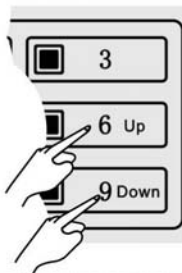
- 2 Press No.4 button once, the Display will show **H.93**, Means upper limit temperature (The customer can adjust the temperature by "UP" and "DOWN" buttons here.)

T temperature hypothesis scope: 60°C~93°C.

By pressing the "UP" and "DOWN" buttons to set the upper limit water temperature.

- 3 Press No.4 button once again, the display will show **L.85** means lower limit which can be set here by pressing "UP" and "DOWN".

We advise to customers that the lower limit temperature of hot drinks should be set higher than 80 degrees Celsius. The factory setting of temperature is 90 degrees Celsius for upper limit and 85 degrees Celsius for lower limit.



- 4 The confirm button on the Panel of front door should be pressed after the setting is over and the Mode Function switch should be set to "OFF", the display shows **P.00**.



The temperature of hot water can be adjusted from 60 to 93 degrees Celsius and you can set different temperatures by season.

Summer: 83 ~ 88 degrees Celsius Spring & Autumn: 84 ~ 89 degrees Celsius Winter: 85 ~ 90 degrees Celsius

* The factory setting is in a difference by season, the customer can adjust by need.

Sales Quantity Confirmation function

The sales quantity can be confirmed in the following way.

- 1 Turn the mode function switch (on the back of the door) to position “ON”.
The Display shows “SEF”.



Press No.1 button twice until the sales quantity for the first kind of drinks displays.

- 2 The Display shows **1.00** first, about 2 second later it shows **000** and returns to **1.00**
- shows the first kind of drink
the fifth figure of the number of quantity
the forth figure of the number of quantity
- the third figure of the number of quantity
the second figure of the number of quantity
the first figure of the number of quantity

Ex: If some kind of drink is sold 23263 cups and now you want to confirm the sales quantity. While SEF is displayed press No.1 button twice and then the Display will show **1.23** for two seconds and follow to show **263**.

When press No.1 button 3 times, sales quantity for second kind of drink will be displayed.

When press No.1 button 4 times, sales quantity for third kind of drink will be displayed.

... ..

- 3 The rest may be deduced by analogy.
To clear the sales quantity

When the Display shows sales quantity, press the ⊕ button for 3~4 seconds.

- 4 Turn the Mode Function switch to position “OFF”.(The confirmation is over).



Defect Confirmation

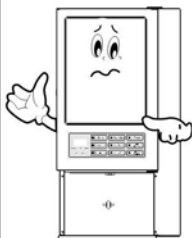
Phenomena and Confirmation

Does not start:



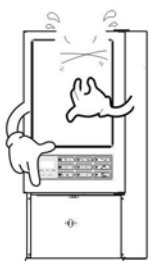
Is the plug inserted?
Be sure the power is 220V.
Is the fuse broken?
Contact the service center
and replace it with a new
one.

Raw material solidifies:



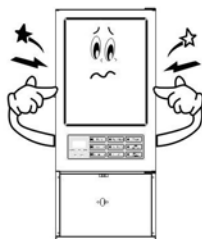
Is the machine not in work
for a long time? Pull out the
plug and clean the material
bucket.
Does not the exhausting
motor work due to foreign
matter?
If the exhaust fan does not
work and humid in the ma-
chine can not be removed,
please clean the exhaust
pipe

Strong alien taste:



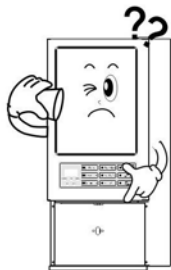
Is the water in the water box
long time?
—Pour out the water in the box
and clean it.
• Did you clean the inside of the
machine periodically?
• Did you not use the machine long
time?
—Pull out the power plug and
remove material and clean the
machine.

Alien noise:



Is the machine placed on
slanting or uneven floor?
Place the machine on the
horizontal and even floor.
Does the exhaust pipe
have impurities and noise?
--Clean the pipe.
If there is the sound of
boiling?
--In order to keep the
water temperature the
heater is repeatedly
started.

Drink does not flow out smoothly:

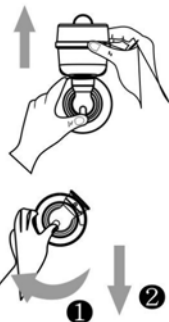


• Are particles or is sticky material
used?
—Use only designated material.
• Is the material in the tank solidified?
—Dismantle the tank and clean it.
• Is the tank placed in the former
position?
• Are the raw coffee mixer and tea
passage stopped up?
—Clean the mixer and passage.
• Is the material in the tank used up?
—Fill in the material.

Dismantling of Parts

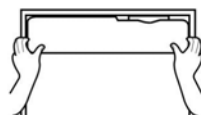
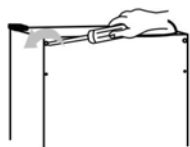
Dismantling of coffee material mixer

- 1 Pull up the top of the mixer and pull it out.
- 2 Turn the bottom of mixer clockwise and pull it out forward.



Dismantling of Water Tank

- 1 Pull out the soft hose and pull out the tap.
 - Remove all the water in the tank.
 - Turn off the power.
 - Take care against hot water.
- 2 Dismount the back cover with a crossdriver.
- 3 Pull out the hose of the tank.
- 4 Pull out the water tank.



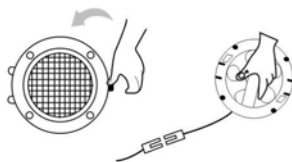
Caution: Just after beginning of water removal, the temperature is very high and you must be careful.

► Dismantling of the cover of fan



Caution: Turn off the power and dismantle the fan. Rotate the right knob and pull it out.

*When removing humid in the machine the powder moistened raw material will contaminate the fan cover and the exhaust fan and it is necessary to clean frequently.



Cleaning

The raw material powder will fall and solidify inside the machine and the water on the receptacle is accumulated for long time and it causes a foreign taste and not Hygienic and therefore frequent cleaning is necessary. Pull out the plug before cleaning.

- Do not clean with chemicals such as benzene and zinc thinner.

* Water tank

Clean the inside spots of machine with soft sponge paper. Clean over 2 times per month.



* Raw Material Bucket

Soak in water to solve the solidified material and clean it with soft sponge. Assemble after drying. Humid make material solidify and feeding be unsmooth. Clean over one time per month (or whenever material solidifies).



* Water Receiving Box

Pour out the accumulated water within the receptacle and soak in water and clean.

- After drying put it in the former position. Clean once every day.



* Coffee Material Mixer

Soak it in water and clean it with a soft brush.

- After cleaning put it into the former place.

Clean it once every day.

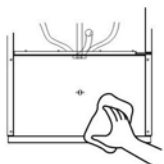


* Cup Hole

Clean it with wet cloth.

- Wipe water with dry cloth.

Clean it once every day.



* Fan Cover in the Exhaust Hole

Soak it in water and wash the powder and dust of material and dry it.



* Exhaust Fan

Remove powder and dust of material with a brush and clean it with wet cloth.

